## *An Extract*

*Of a Letter written by Signor* Caſſini *Profeſſor of Aſtronomy in* Bononia; *to Monſieur* Petit *at* Paris, *and Engliſhed out of the* Journal Des Scavans; *concerning ſeveral* Spots *lately diſcover'd there in the Planet* Venus.

TO give you ſome account of my preſent Studies, I ſhall acquaint you, that having been a good while very aſſiduous and careful in making Obſervations of *Venus*, to ſee, whether that Planet did not turn about its Axis, by a motion like to that of *Jupiter* and *Mars*; I met at firſt with many difficulties, but at laſt conſidering, that I ſhould ſucceed better in my Obſervations at a time when *Venus* is at a good diſtance from the *Earth*, than when ſhe is near thereto, I attentively obſerv'd, when ſhe was riſen ſomewhat high above the *Horizon*, and ſhin'd brighter, whether I could not diſcern in her ſome part remarkable either by its brightneſs or obſcurity, among the reſt, eſpecially about the middle of her Disk. And this I did not in vain; for I diſcover'd at laſt towards the middle of her Body a part clearer than the reſt, by which one might judge of the Motion or the Reſt of this Planet.

The firſt time I ſaw it, was *October* 14. 1666. h. 5. 45'. p. m. and then this bright part was very near the Center, on the *North* ſide. And at the ſame time I obſerved *Weſtward* two *obſcure* ſpots, ſomewhat oblong; but I could not then ſee that reſplendent part long enough to conclude any thing from thence, nor was I able to ſee any thing well of thoſe parts till *April* 28. 1667. on which day, a quarter of an hour before Sun-riſing, I ſaw again a *bright* part, ſcituated near the *Section*, and diſtant from the *Southern Horn* a little more than $\frac{1}{4}$ of its Diameter. And near the *Eaſtern Ring* I ſaw a dark and ſomewhat oblong ſpot, which was nearer to the *Northern* than the *Southern* Horn. At the riſing of the Sun I perceived, that this *bright* part was then no more ſo near the *Southern* Horn, but diſtant from it $\frac{1}{3}$ of its Diameter. This gave me great ſatisfaction. But

I was ſurpriſed at the ſame time to find, that the ſame Motion, which was made from *South* to *North* in the inferiour part of the Disk, was on the contrary made from *North* to *South* in the ſuperiour part; whence the determination of the Motion may be better taken: For we have no Example of the like motion, except it be in that of the *Libration* of the Moon.

The next day, at the riſing of the Sun, the ſaid *bright* part was not far from the *Section*, and diſtant from the *Southern* Horn $\frac{1}{4}$ of the Diameter. When the Sun was 4 degrees high, the ſame was ſcituated near the *Section*, and remote from the *Southern* Horn $\frac{2}{5}$ of the Diameter. The Sun being high *6 deg.* 10 *min.* it ſeem'd to have been paſſed the Center, and that the Section of the Disk did cut the ſame. The Sun being 7 *deg.* high, it appeared yet more advanced Northward, together with two *obſcure* Spots ſeated between the *Section* and the *Circumference*, and equally diſtant from one another, and from each Horn on both ſides. And the Sky being very clear, I obſerv'd the motion of the *bright* part for 1 $\frac{1}{3}$ hour, which then ſeem'd to be exactly made from *South* to *North*, without any ſenſible inclination *Eaſtward* or *Weſtward*. Mean-time I perceiv'd in the motion of the *dark* Spots ſo great a Variation, that it cannot be adſcribed to any reaſon in *Opticks*.

*May* 10. and 13. before Sun-riſing, I ſaw ſtill the *bright* part near the Center Northward.

Laſtly, *June* 5. and 6. before the riſing of the Sun, I ſaw the ſame between the Northern *Horn* and the Center of this Planet, and I noted the ſame irregular Variation in the *obſcure* Spots. But when *Venus* began to be further removed from the Earth, it was more difficult to obſerve theſe *Phænomena*.

I ſhall not preſume to declare my ſentiment touching theſe Apparences ſo boldly, as I did concerning the Spots formerly diſcover'd in *Jupiter* and *Mars*. For thoſe Spots I could very well obſerve for a whole night together, during the oppoſition of thoſe Planets to the Sun: I could conſider their Motion for the ſpace of ſeveral hours; and at laſt, ſeeing them return regularly to the ſame place, I could judge whether they were the ſame ſpots or not, and in how much time they

they abſolv'd their Relation. But it was not ſo here with the Apparences in *Venus*; for one ſees them but for ſo ſmall a time, that it is far more difficult, *certainly* to know, when they return to the ſame place.

Yet this I can ſay, (ſuppoſing that this *bright* part of *Venus*, which I have obſerv'd, eſpecially this year 1667, hath always been the ſame) that in leſs than one day it abſolves its motion, whether of *Revolution* or *Libration*, ſo as in near 23 hours it returns about the ſame hour to the ſame ſcituation in this Planet; which yet happens not without ſome irregularity. Now to affirm, (ſuppoſing it to be always the *ſame* bright part) whether this Motion is made by an entire *Revolution*, or by a *Libration*, I dare not yet do, in regard I could not ſee the Continuity of the Motion through a *great* part of the Arch, as I did in the other Planets: And for this very reaſon, *that* will always be difficult to determine.

## *An Extract*

### *Of a Letter, written by* J. DENIS, *Doctor of Phyſick, and Profeſſor of Philoſophy and the Mathematicks at* Paris, *touching a late* Cure *of an* Inveterate Phrenſy *by the* Transfuſion *of* Blood.

*This Letter was lately ſent by the Author himſelf to the* Publiſher, *as it was printed at* Paris *in* French; *the ſubſtance whereof is in* Engliſh, *as follows.*

IT is now almoſt a twelve-month that I declared my ſelf publickly in this matter of *Transfuſion*, and after I had grounded my Conjectures upon divers reaſons, and a number of Experiments which I made joyntly with M. *Emmerez*, I reſolv'd to expect in the ſequel a further confirmation, by carefully obſerving all that ſhould happen in the ſeveral Trials I intended to practice.

In this reſolution, we have ſince let ſlip no occaſion to improve this Operation, which hath been follow'd with good ſucceſs, and I could here alledge ſome particular Relations, the circumſtances of which would appear curious enough, if I did

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